

APPROVED	O.G. FIG.	
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#7

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GGAGGGCAGCAAGGACGGCACCAAGGGAGCTACCCCATGGACAGGGCCCCACAGAGACACCACCGGACAT  
CTCGGGAGCTGCTGGCTGCAAAGAAGACCCACACCTCACAAATTGAAGTGATCCCTTGCAAGATCTGTGG  
GGACAAGTCATCTGGGATCCACTACGGGGTTATCACCTGTGAGGGGTGCAAGGGCTTCTTCCGCCGACG  
CAGCAGTGTAATGTGGCCTACTCCTGCACGCGTCAGCAGAACTGCCCCATTGACCGAACCAGCCGCAACC  
GATGCCAGCATTGCCGCTGCAGAAAGTGCTGGCTCTGGGCATGTCCCGAGATGCTGTCAAGTTTGGCCG  
AATGTCCAAGAAGCAGAGGGACAGTCTACATGCAGAAAGTGCAAAACAAGTGCAACAGCAGCAGCAACAG  
GAACAAGTGGCCAAGACTCCTCCAGCTGGGAGCCGCGGAGCAGACACACTTACATACACTTTAGGGCTCT  
CAGATGGGCAGCTACCACTGGGCGCCTCACCTGACCTACCCGAGGCCTCTGCTTGTCCCCCTGGCCTCCT  
GAGAGCCTCAGGCTCTGGCCCAACATATTCCAATACCTTGGCCAAAACAGAGGTCCAGGGGGCCTCCTGC  
CACCTTGAGTATAGTCCAGAACGAGGCAAAGCTGAAGGCAGAGACAGCATCTATAGCACTGACGGCCAAC  
TTACTCTTGGAAGATGTGGACTTCGTTTTGAGGAAACCAGGCATCCTGAACTTGGGGAACCAGAACAGGG  
TCCAGACAGCCACTGCATTCCCAGTTTCTGCAGTGCCCCAGAGGTACCATATGCCTCTCTGACAGACATA  
GAGTACCTGGTACAGAAATGTCTGCAAGTCCTTCCGAGAGACATGCCAGCTGCGACTGGAGGACCTTCTAC  
GGCAGCGCACCAACCTCTTTTACGGGAGGAGGTGACCAGCTACCAGAGGAAGTCAATGTGGGAGATGTG  
GGAGCGCTGTGCCCCACCACCTCACTGAGGCCATTAGTATGTGGTGGAGTTTGCCAAGCGGCTTTCAGGC  
TTCATGGAGCTCTGCCAGAATGACCAGATCATACTACTGACAGCAGGAGCAATGGAAGTCGTCTAGTCA  
GAATGTGCAGGGCCTACAATGCCAACCAACACACAGTCTTTTTTTGAAGGCAAATACGGTGGTGTGGAGCT  
GTTTCGAGCCTTGGGCTGCAGCGAGCTCATCAGCTCCATATTTGACTTTTCCCACTTCTCAGCGCCCTG  
TGTTTTTCTGAGGATGAGATTGCCCTCTACACGGCCCTGGTTCTCATCAATGCCAACCGTCTCTGGGCTCC  
AAGAGAAGAGGAGAGTGGAACATCTGCAATACAATTTGGAAGTGGCTTTCCATCATCATCTCTGCAAGAC  
TCATCGACAAGGCCTCCTAGCCAAGCTGCCACCCAAAGGAAAACCTCCGGAGCCTGTGCAGCCAACATGTG  
GAAAAGCTGCAGATCTTCCAGCACCTCCACCCCATCGTGGTCCAAGCCGCCTTCCCNCCACTCTATAAGG  
AACTCTTCAGCACTGATGTTGAATCCCCTGAGGGGCTGTCAAAGTGATCTGGAGGAAGGACAACTTTCTA  
TTTCCTTCAGCCCTCTGACCCGTCTCCCTGGACTCCCTTACCCAGCCTTTCCCTTTCTGCACTCTATGA  
AGGGTGGTATCCCTAGGAGTAAGCAAATCCTAAGACTGATTTTCTGCCCCCTAGGCTTGCTTGTAGGACA  
ACAGCAGCAAGTGATGGAGAAAAGGCTTGTTATGTTTGATTTCCCATAAAGTTCCACCCTGGCTTCTGGAA  
GCTGTGGGGTAGATGGGATAGAGATAGGATGACCAAGTCAAATAAAAAACAGACTGACAATCAGCAGGGA  
TAAATCCAGGTACCTGGGATAAGGAGAACTCAAATCTAGGCTTGAAAGCTAATAACAGTCCTTTCAATAC  
CTCATTGTATTTCCCCATGGGTCTCTGGGGGGACATGGATCTAGCTCAGAGACTGGTGGCAAGCCCCC  
AGAAGGACCTGTATATAATAAGAATATAGATTCTG (SEQ ID NO:1)

MDRAPQRHRTSRELLAAKKTHTSIEVIPCKICGDKSSGIHYGVITCEGCKGFFRRSQCN  
VAYSCTRQQNCPIDRTSRNRCQHRLQKCLALGMSRDAVKFGRMSKKQRDSLHAEVQKQ  
LQQQQQQEQVAKTPPAGSRGADTLTYTLGLSDGQLPLGASPDLPASACPPGLLRASGSGPP  
YSNTLAKTEVQGASCHLEYSPEERGKAEGRDSIYSTDGQLTLGRCGLRFEETRHPPELGEPEQG  
PDSHCIPSFCSAPEVPYASLTDIEYLVQNVCKSFRETCQLRLEDLLRQRTNLFSSREEVTSYQR  
KSMWEMWERCAHHLTEAIQYVVEFAKRLSGFMELCQNDQIILLTAGAMEVVLVRMCRA  
NANNHTVFFEGKYGGVELFRALGCSELISIFDFSHFLSALCFSEDEIALYALVLINANRPL  
QEKRRVEHLQYNLELAFHHHLCKTHRQGLLAKLPKGLRSLCSQHVEKLQIFQHLHPIVV  
QAAFPLYKELFSTDVESPEGLSK (SEQ ID NO:2)

FIGURE 1

APPROVED	O.G. FIG.	
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underlined = deleted in targeting construct

[ ] = sequence flanking Neo insert in targeting construct

GGAGGGCAGCAAGGACGGCACCAAGGGAGCTACCCCATGGACAGGGCCCCACAGAGACAC  
 CACCGGACATCTCGGGAGCTGCTGGCTGCAAAGAAGACCCACACCTCACAAATTGAAGTG  
 ATCCCTTGCAAGATCTGTGGGGACAAGTCATCTGGGATCCACTACGGGGTTATCACCTGT  
 GAGGGGTGCAAG [GGCTTCTTCCGCCGAGCCAGCAGTGTAATGTGGCCTACTCCTGCACG  
 CGTCAGCAGAA] CTGCCCCATTGACCGAACCAGCCGCAACCGATGCCAGCATTGCCCGCCTG  
CAGAAGTGCTGGCTCTGGGCATGTCCCGAGATGCTGTCAAGTTTGGCCGAATGTCCAAG  
AAGCAGAGGGACAGTCTACATGCAGAAAGTGCAAAAACACTGCAACAGCAGCAGCAACAG  
GAACAAGTGGCCAAGACTCCTCCAGCTGGGAGCCGCGGAGCAGACACACTTA [CATACACT  
 TTAGGGCTCTCAGATGGGCAGCTACCACTGGGCGCCTCACCTGACCTACCCGAGGCCTCT  
 GCTTGTCCCCCTGGCCTCCTGAGAGCCTCAGGCTCTGGCCACCATATTCCAATACCTTG  
 GCCAAAACAGAGGTCCAGGGGGCCTCCTGCCACCTTGAGTATAGTCCAGAACGAGGCAAA  
 GCTGAAGGCAGAGACAGCATCTATAGCACTGACGGCCAACCTACTCTTGGAAGATGTGGA  
 CTTTCGTTTTGAGGAAACCAGGCATCCTGAACTTGGGGAACCAGAACAGGGTCCAGACAGC  
 CACTGCATTCCCAGTTTCTGCAGTGCCCCAGAGGTACCATATGCCTCTCTGACAGACATA  
 G] AGTACCTGGGTACAGAATGTCTGCAAGTCCTTCCGAGAGACATGCCAGCTGCGACTGGAG  
 GACCTTCTACGGCAGCGCACCAACCTCTTTTCACGGGAGGAGGTGACCAGCTACCAGAGG  
 AAGTCAATGTGGGAGATGTGGGAGCGCTGTGCCCACCACCTCACTGAGGCCATTTCAGTAT  
 GTGGTGGAGTTTGCCAAGCGGCTTTCAGGCTTCATGGAGCTCTGCCAGAATGACCAGATC  
 ATACTACTGACAGCAGGAGCAATGGAAGTCGTCTAGTCAGAATGTGCAGGGCCTACAAT  
 GCCAACAACCACACAGTCTTTTTTGAAGGCAAATACGGTGGTGTGGAGCTGTTTCGAGCC  
 TTGGGCTGCAGCGAGCTCATCAGCTCCATATTTGACTTTTCCCACTTCCTCAGCGCCCTG  
 TGTTTTTCTGAGGATGAGATTGCCCTCTACACGGCCCTGTTTCTCATCAATGCCAACCGT  
 CCTGGGCTCCAAGAGAAGAGGAGAGTGGAACATCTGCAATAACAATTTGGAACCTGGCTTTC  
 CATCATCATCTCTGCAAGACTCATCGACAAGGCCTCCTAGCCAAGCTGCCACCCAAAGGA  
 AAACCTCCGAGCCTGTGCAGCCAACATGTGGAAAAGCTGCAGATCTTCCAGCACCTCCAC  
 CCCATCGTGGTCCAAGCCGCTTCCCNCCACTCTATAAGGAACTCTTCAGCACTGATGTT  
 GAATCCCCTGAGGGGCTGTCAAAGTGATCTGGAGGAAGGACAACCTTCTATTTTCTTCAG  
 CCTCTGACCCGTCTCCCTGGACTCCCTTCACCCAGCCTTTCCTTTCTGCACTCTATGA  
 AGGGTGGTATCCCTAGGAGTAAGCAAATCCTAAGACTGATTTTCTGCCCTAGGCTTGCC  
 TTGTAGGACAACAGCAGCAAGTGATGGAGAAAAGGCTTGTTATGTTTGATTTCCCATAG  
 TTCCACCCTGGCTTCTGGAAGCTGTGGGGTAGATGGGATAGAGATAGGATGACCAAGTCA  
 AATAAAAAACAGACTGACAATCAGCAGGGATAAATCCAGGTACCTGGGATAAGGAGAACT  
 CAAATCTAGGCTTGAAAGCTAATAACAGTCCTTTCAATACCTCATTGTATTTCCCCATGG  
 GTCCTCCTGGGGGGACATGGATCTAGCTCAGAGACTGGTGGCAAGCCCCCAGAAGGACCT  
 GTATATAATAAGAATATAGATTCTCTG (SEQ ID NO:1)

FIGURE 2A

09895840-012902

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Gene Sequence  
Structure \*

252 bp

Sequence Deleted

472 bp

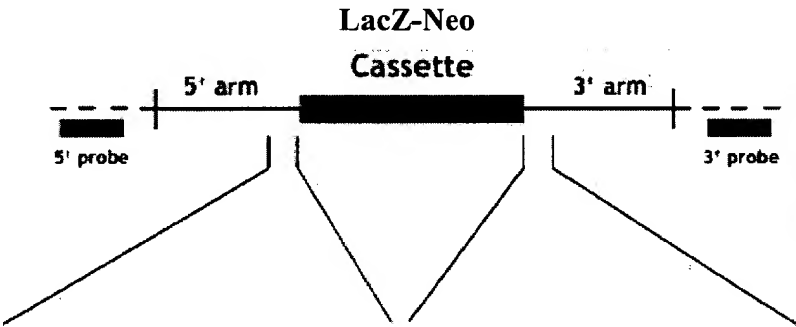
Size of full-length  
cDNA: 2066 bp



Targeting Vector\*  
(genomic sequence)

Construct Number: 651

Arm Length:  
5': 1.6 kb  
3': 2.5 kb



———— Targeting Vector  
- - - - Endogenous Locus

\* Not drawn to scale

<p>5' &gt;CAGGGTCCATCACAATTATAC AGTGGAGGTTTCGGGGACTTTGGTG GATGTAGAAATTCTTGAGACCACT GCACATGAATTGGAGGTCCCTGGG ACCACTCAAACCTCCGAGAGGGTG GGATAAGCAGTTTCTGTTTCCCAG GGCTTCTTCCGCCGAGCCAGCAG TGTAATGTGGCCTACTCCTGCACG CGTCAGCAGAA&lt;3' (SEQ ID NO:3)</p>	<p>5' &gt;CATACACTTTAGGGCTCTCAG ATGGGCAGCTACCACTGGGCGCCT CACCTGACCTACCCGAGGCCTCTG CTTGTCCCCCTGGCCTCCTGAGAG CCTCAGGCTCTGGCCCACCATATT CCAATACCTTGGCCAAAACAGAGG TCCAGGGGGCCTCCTGCCACCTTG AGTATAGTCCAGAACGAGGCAAAG CTGAAGGCAGA&lt;3' (SEQ ID NO:4)</p>
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FIGURE 2B

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# necropsy - spleen weight/body weight

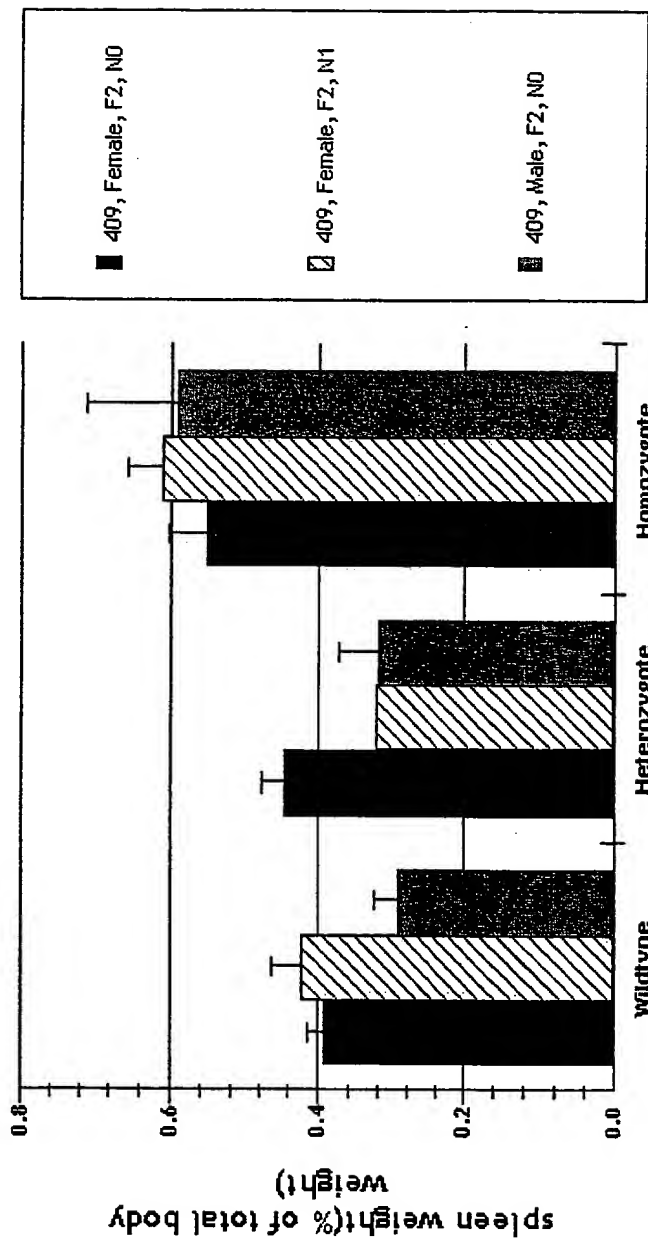


FIG. 3

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# necropsy - liver weight/body weight

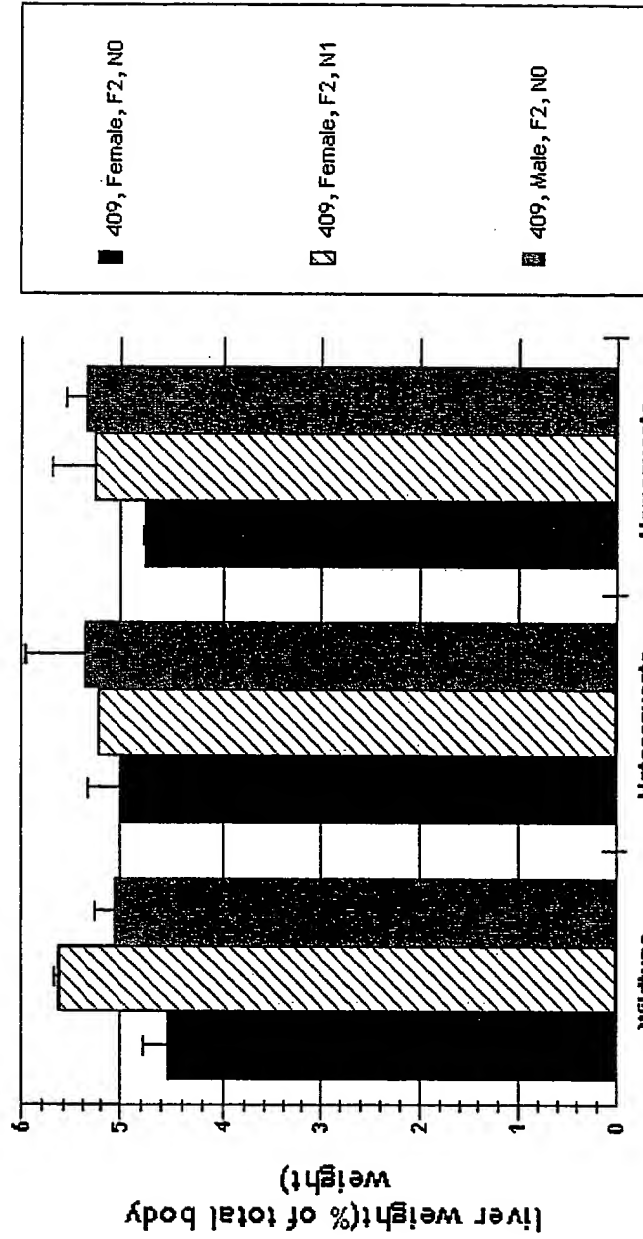


FIG. 4

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# necropsy - kidney weight/body weight

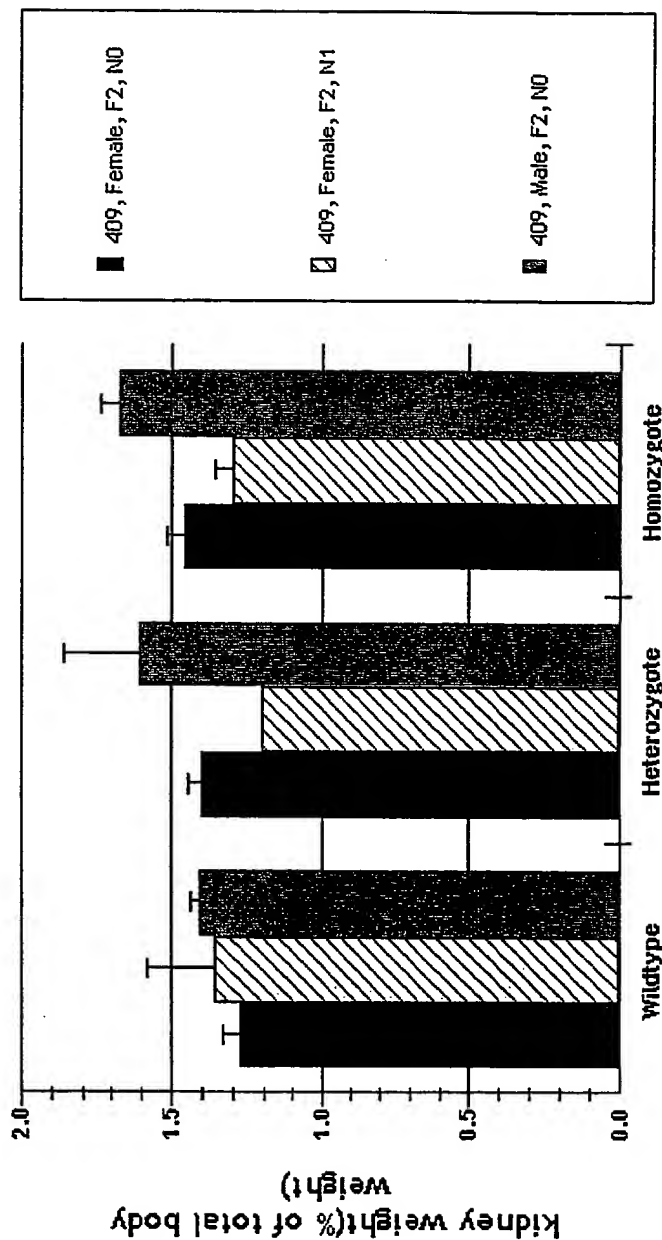
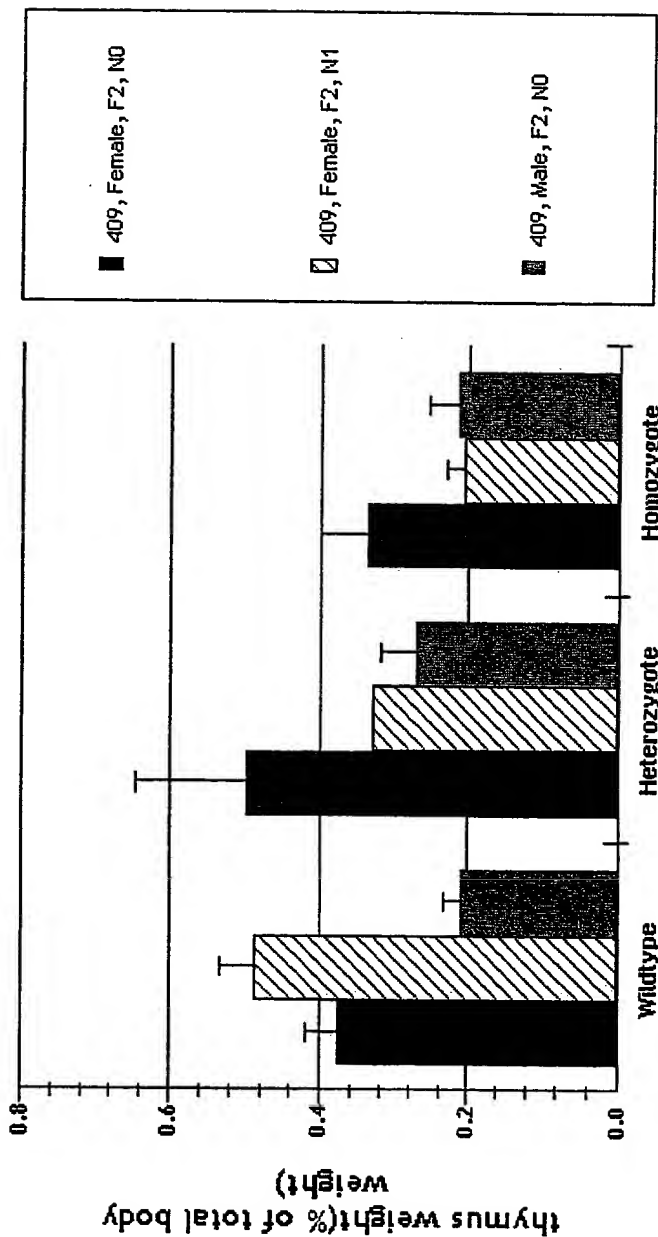


FIG. 5

APPROVED	C.G. FIG.	
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# necropsy - thymus weight/body weight



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FIG. 6

206270-0485660